

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

1. (Currently Amended) A ~~multi-nuclear-metal-molecule~~ beam apparatus, which generates an ion beam by using a ~~multi-nuclear-metal-molecular~~ metal cluster complex, wherein the metal cluster complex is vaporized or atomized, and
the metal cluster complex that is vaporized or atomized is ionized.

Claim 2 (Cancelled)

3. (Currently Amended) The ~~multi-nuclear-metal-molecular~~ beam apparatus as claimed in claim-2 1, wherein the ~~multi-nuclear-metal-molecule~~ metal cluster complex that is vaporized or atomized, is ionized by electron impact.

4. (Currently Amended) The ~~multi-nuclear-metal-molecular~~ beam apparatus as claimed in claim-2 1, wherein the ~~multi-nuclear-metal-molecule~~ metal cluster complex that is vaporized or atomized, is ionized by light irradiation.

5. (Currently Amended) The ~~multi-nuclear metal-molecular~~ beam apparatus as claimed in claim-2 1, wherein the ~~multi-nuclear metal-molecule-metal cluster complex~~ that is vaporized or atomized, is ionized by plasma.

6. (Currently Amended) The ~~multi-nuclear metal-molecular~~ beam apparatus as claimed in claim-2 1, wherein the ~~multi-nuclear metal-molecule-metal cluster complex~~ that is vaporized or atomized, is ionized by an electric field.

7. (Currently Amended) The ~~multi-nuclear metal-molecular~~ beam apparatus as claimed in claim-2 1, wherein the ~~multi-nuclear metal-molecule-metal cluster complex~~ that is vaporized or atomized, is ionized by electric charge exchange of highly-excited electrons.

8. (Currently Amended) A ~~The multi-nuclear metal-molecular~~ beam apparatus-as ~~claimed in claim-1~~, which generates an ion beam by using a metal cluster complex, wherein the ~~multi-nuclear metal-molecule-metal cluster complex~~ is vaporized and simultaneously ionized.

9. (Currently Amended) The ~~multi-nuclear metal-molecular~~ beam apparatus as claimed in claim 8, wherein the ~~multi-nuclear metal-molecule-metal cluster complex~~ is ionized by laser ablation.

10. (Currently Amended) The ~~multi-nuclear metal-molecular~~ beam apparatus as claimed in any one of claims 1, and 3 to 7, wherein the ~~multi-nuclear metal-molecule-metal cluster~~

complex is dissolved in a solvent and generated as mist, and the mist of the ~~multi-nuclear metal molecule~~ metal cluster complex is given an electric charge, to be ionized.

11. (Currently Amended) A ~~multi-nuclear metal-molecular beam apparatus~~, comprising:
vaporization means for vaporizing or atomizing of a multi-nuclear metal molecule a
metal cluster complex;

ionization means for ionizing the vaporized or atomized metal cluster complex;

acceleration means for accelerating the ionized metal cluster complex;

convergence means for converging an orbit of a beam of the metal cluster complex
accelerated, by making the orbit to be curved; and

scanning means for scanning with the beam of the metal cluster complex accelerated and
converged, toward a substrate, by making the orbit of the beam to be curved.